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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 10/03/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 05-03-20

Customer ID : Retaining Wall Base Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Retaining Wall Base Concrete	M25	03/03/2020	10/03/2020	151.40 X 150.00 X 149.68	22710	**8.330**	534.5	23.5	22.8
2	Retaining Wall Base Concrete	M25	03/03/2020	10/03/2020	149.06 X 149.60 X 149.86	22299	**8.725**	493.9	22.1	
3	Retaining Wall Base Concrete	M25	03/03/2020	10/03/2020	150.56 X 149.15 X 150.75	22457	**8.601**	510.0	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 31/03/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 05-03-20

Customer ID : Retaining Wall Base Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Retaining Wall Base Concrete	M25	03/03/2020	31/03/2020	149.35 X 150.52 X 149.78	22480	**8.770**	620.4	27.6	27.5
2	Retaining Wall Base Concrete	M25	03/03/2020	31/03/2020	149.32 X 149.38 X 149.49	22306	**8.832**	591.7	26.5	
3	Retaining Wall Base Concrete	M25	03/03/2020	31/03/2020	149.97 X 151.48 X 149.08	22718	**8.853**	644.8	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04**

Date: 12/05/2020

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	12/05/2020	151.13 X 149.14 X 150.96	22540	**8.103**	282.4	12.5	12.4
2	PCC	M15	05/05/2020	12/05/2020	151.94 X 149.30 X 151.48	22684	**8.971**	279.7	12.3	
3	PCC	M15	05/05/2020	12/05/2020	150.11 X 151.78 X 149.61	22784	**8.277**	282.4	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2020

Lab ID : **CP-2020-06-17-04**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 07-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/05/2020	02/06/2020	149.40 X 150.54 X 150.14	22490	**8.885**	402.1	17.9	17.5
2	PCC	M15	05/05/2020	02/06/2020	150.40 X 150.34 X 149.30	22610	**8.805**	387.6	17.1	
3	PCC	M15	05/05/2020	02/06/2020	151.79 X 149.88 X 149.64	22751	**8.083**	394.9	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 11/05/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	11/05/2020	151.85 X 151.62 X 149.18	23022	**8.103**	295.7	12.8	12.5
2	PCC	M15	04/05/2020	11/05/2020	149.23 X 151.92 X 150.72	22670	**8.971**	280.3	12.4	
3	PCC	M15	04/05/2020	11/05/2020	150.04 X 149.08 X 149.28	22368	**8.277**	278.1	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 01/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	01/06/2020	150.93 X 149.87 X 151.21	22621	**8.885**	401.3	17.7	17.5
2	PCC	M15	04/05/2020	01/06/2020	151.90 X 149.49 X 150.36	22708	**8.805**	401.6	17.7	
3	PCC	M15	04/05/2020	01/06/2020	151.15 X 149.75 X 149.29	22634	**8.083**	387.4	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 11/05/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	11/05/2020	149.19 X 150.78 X 150.94	22494	**8.103**	271.3	12.1	12.3
2	PCC	M15	04/05/2020	11/05/2020	151.02 X 151.78 X 150.94	22922	**8.971**	279.7	12.2	
3	PCC	M15	04/05/2020	11/05/2020	151.17 X 150.79 X 151.11	22794	**8.277**	286.7	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 01/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	01/06/2020	149.72 X 150.01 X 150.87	22460	**8.885**	390.5	17.4	17.2
2	PCC	M15	04/05/2020	01/06/2020	151.77 X 149.60 X 149.12	22705	**8.805**	389.5	17.2	
3	PCC	M15	04/05/2020	01/06/2020	149.55 X 150.92 X 151.46	22570	**8.083**	384.0	17.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 11/05/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	11/05/2020	150.45 X 151.63 X 151.02	22812	**8.103**	276.1	12.1	12.1
2	PCC	M15	04/05/2020	11/05/2020	151.90 X 149.86 X 149.37	22763	**8.971**	273.8	12.0	
3	PCC	M15	04/05/2020	11/05/2020	149.12 X 150.07 X 149.69	22377	**8.277**	274.9	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 01/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	01/06/2020	151.96 X 151.34 X 149.98	22998	**8.885**	393.9	17.1	17.5
2	PCC	M15	04/05/2020	01/06/2020	151.40 X 149.57 X 149.69	22645	**8.805**	394.9	17.4	
3	PCC	M15	04/05/2020	01/06/2020	150.63 X 150.89 X 151.16	22729	**8.083**	406.7	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2020

Lab ID : **CP-2020-06-17-04**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	11/05/2020	151.90 X 149.99 X 149.49	22783	**8.103**	291.7	12.8	12.5
2	PCC	M15	04/05/2020	11/05/2020	151.35 X 150.05 X 150.26	22710	**8.971**	275.6	12.1	
3	PCC	M15	04/05/2020	11/05/2020	150.05 X 151.12 X 151.66	22675	**8.277**	285.0	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-17-04** **Date: 01/06/2020**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 06-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/05/2020	01/06/2020	151.67 X 149.89 X 151.30	22734	**8.885**	395.8	17.4	17.7
2	PCC	M15	04/05/2020	01/06/2020	150.34 X 149.94 X 150.88	22542	**8.805**	396.2	17.6	
3	PCC	M15	04/05/2020	01/06/2020	151.56 X 151.72 X 151.95	22996	**8.083**	413.4	18.0	

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 20-02-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-02-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

CIVIL PRO BANGALORE Sig..... Date.....

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-06-17-04** **Date: 22-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : **CP-2020-06-17-04** **Date: 13-05-20**

Project Name : Construction of Retaining Wall and Other Development Works to Marriage Community Hall Building at Chikkabettahalli in Ward No.03

Agency : Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/158/19-20

Date of Receipt : 09-05-20

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 09-05-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	198	203	16118	31.532	1956.4	1984.5	Not less than 1800Kg/m^3
2	404	198	202	16158	32.672	2022.0		
3	405	200	203	16443	32.475	1975.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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